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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/008,195	11/08/2001	Reinder Jaap Bril	PHNL 000608	2144
24737	7590 01/24/2005	EXAMINER		
	TELLECTUAL PROPER	BULLOCK JR, LEWIS ALEXANDER		
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
BRIARCEIT	MANOK, NT 10510	141 10310	2127	
			DATE MAIL ED: 01/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Summary		10/008,195	BRIL ET AL.	BRIL ET AL.				
		Examiner	Art Unit					
		Lewis A. Bullock, Jr.	2127					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on							
2a) <u></u>	This action is FINAL . 2b)⊠ Thi	s action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	on Papers							
-	The specification is objected to by the Examin		- Eveminer					
10)[10) The drawing(s) filed on 11/8/01 is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	t(c)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice No	be of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date	Paper No(s)/Mail D	ate	O-152)				

Page 2

Application/Control Number: 10/008,195

Art Unit: 2127

5.4

DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure

statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other

information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the

list may not be incorporated into the specification but must be submitted in a separate

paper." Therefore, unless the references have been cited by the examiner on form

PTO-892, they have not been considered.

2. The information disclosure statement filed 11/12/03 fails to comply with 37 CFR

1.98(a)(1), which requires a list of all patents, publications, or other information

submitted for consideration by the Office. It has been placed in the application file, but

the information referred to therein has not been considered. References submitted in

an international search report cannot be construed as a information disclosure

statement because a copy of the publications have not been provided with the report

and the listing stored on a separate sheet, which is essential in all applications not filed

with priority under 35 U.S.C. 120. Therefore, the documents have not been consider

and Applicant is requested to refile the IDS, preferably on a PTO-1449 or PTO/SB/08

form, listing the search report references and all documents cited in the specification

which also cannot be considered.

Claim Rejections - 35 USC § 102

Application/Control Number: 10/008,195

Art Unit: 2127

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1-12 are rejected under 35 U.S.C. 102(a) as being anticipated by "Best Case Response Time Analysis for Improved Schedulability Analysis of Distributed Real-Time Tasks" by KIM et al.

As to claims 1, 11 and 12, KIM teaches a method of determining a best-case response time of a first periodic task, the method comprising: a first step of determining that the first periodic task has a lower priority than a higher priority of a second periodic task (pg. 3, "...and hp(i) denotes a set of tasks with higher priority than τ_l on the same processor node..."); characterized in that the method further comprises: a second step of determining that the best case response time of the first periodic task is substantially equal to the difference between a start of the first periodic task and a completion of the first periodic task, the start being right after a release of the first periodic task and the completion coinciding with a release of the second periodic task (pg. 3, BCRT Analysis, "To overcome the shortcomings of GGH method, the proposed BCRT analysis takes into account relative phase between tasks in the best case. Let Δ denote the minimum elapsed time between the activation of τ_l and its completion.").

As to claims 2-6, KIM teaches determining a best-case response time of a first periodic tasks based upon a formula that considers the best-case computation time

Application/Control Number: 10/008,195

Art Unit: 2127

(minimum execution time), set of tasks with a higher priority than the lower priority (hp(i)), period of activation of a task (p_i) and release jitter of the first periodic task (J_i) ; and the worst case response time of the first periodic tasks is based upon a worst-case computation time/best-case computation time (minimum execution time / maximum execution time) of the first periodic task (pg. 3, table 2, Response Time Analysis, BCRT Analysis).

As to claims 7-10, refer to claims 1-3 and 6 for rejection.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Best Case Response Time Analysis for Improved Schedulability Analysis of Distributed Real-Time Tasks" by KIM et al.

As to claims 13 and 14, KIM teaches calculating a tighter lower bound on response time real-time systems based on BCRT and WCRT (pg. 6). KIM also teaches the study can be extended to real-time client/server applications with different communication patterns. However, KIM does not teach that the system is a television set. Official Notice is taken in that it is well known in the art that television sets or set

Application/Control Number: 10/008,195

Art Unit: 2127

top boxes execute client/server applications and therefore would be obvious to one skilled in the art that the invention of KIM is operable on a television set or set top box in order to calculate tighter lower bound response time in the real-time television.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis A. Bullock, Jr. whose telephone number is (571) 272-3759. The examiner can normally be reached on Monday-Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

January 18, 2005